

WEST Search History

DATE: Wednesday, February 16, 2005

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<input type="checkbox"/>	L7	L2 or l3	9
<input type="checkbox"/>	L6	L1 and (add\$3 near3 synthesis gas near4 hydrogen)	0
<input type="checkbox"/>	L5	L1 and (add\$3 near3 syngas gas near4 hydrogen)	0
<input type="checkbox"/>	L4	L1 and (mix\$3 near3 syngas gas near4 hydrogen)	0
<input type="checkbox"/>	L3	L1 and (mix\$3 near3 synthesis gas near4 hydrogen)	4
<input type="checkbox"/>	L2	L1 and (adjust\$3 near2 synthesis gas or adjust\$3 near2 syngas)	6
<input type="checkbox"/>	L1	(first syngas) or (first synthesis gas)	271

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Search Results - Record(s) 1 through 9 of 9 returned.

1. Document ID: US 20040247499 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 9

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040247499

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040247499 A1

TITLE: System for synthesizing liquid fuel

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Matsuoka, Kei	Tokyo		JP	
Uchino, Akira	Tokyo		JP	
Kobayashi, Yukihiro	Chiba		JP	

US-CL-CURRENT: 422/191; 422/188, 422/211

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWC](#) | [Drawn D](#)

2. Document ID: US 20040102532 A1

L7: Entry 2 of 9

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040102532

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040102532 A1

TITLE: Managing hydrogen and carbon monoxide in a gas to liquid plant to control the H₂/CO ratio in the Fischer-Tropsch reactor feed

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Landis, Stephen R.	Katy	TX	US	
Espinosa, Rafael L.	Ponca City	OK	US	
Mohedas, Sergio R.	Ponca City	OK	US	
Belt, Barbara A.	Seabrook	TX	US	

Melquist, Vincent H.	Ponca City	OK	US
Goodwin, Ralph T. III	Ponca City	OK	US

ASSIGNEE- INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
ConocoPhillips Company	Houston	TX		02

APPL-NO: 10/ 388843 [PALM]

DATE FILED: March 15, 2003

RELATED-US-APPL-DATA:

Application 10/388843 is a continuation-in-part-of US application 10/303606, filed November 25, 2002, PENDING

INT-CL: [07] C07 C 27/06

US-CL-PUBLISHED: 518/726

US-CL-CURRENT: 518/726

REPRESENTATIVE-FIGURES: 2

ABSTRACT:

The present invention provides a process for controlling the ratio of hydrogen to carbon monoxide in feed streams to reactors that convert syngas to hydrocarbon liquids. The process includes primary syngas production process for converting hydrocarbon gas to syngas comprising hydrogen and carbon monoxide. The process further includes introducing a hydrogen rich stream, a carbon monoxide rich stream, or both produced by an auxiliary source to a feed stream being passed to a reactor for converting the syngas to hydrocarbon liquid, thereby adjusting the H_{sub}2/CO ratio in the feed stream. Examples of reactors that may be used to convert syngas to hydrocarbon liquids are FT reactors staged in series and oxygenate producing reactors staged in series.

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a continuation in part of U.S. patent application Ser. No. 10/303,606, filed Nov. 25, 2002, entitled "Syngas Production with Adjustable Hydrogen to CO Ratio," incorporated herein by reference.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawn	Def
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 3. Document ID: US 20030236312 A1

L7: Entry 3 of 9

File: PGPB

Dec 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030236312

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030236312 A1

TITLE: Process for conversion of LPG and CH₄ to syngas and higher valued products

PUBLICATION-DATE: December 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
O'Rear, Dennis J.	Petaluma	CA	US	

APPL-NO: 10/ 179604 [PALM]

DATE FILED: June 25, 2002

INT-CL: [07] C07 C 27/06

US-CL-PUBLISHED: 518/728

US-CL-CURRENT: 518/728

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

The present invention relates to a process for the production of a blended syngas feed with a variable H₂/CO ratio for use in a syngas conversion reactor. In this process a H₂/CO ratio of from approximately 1.0 to 3.0 for the blended syngas feed is selected. A first syngas is formed with a H₂/CO ratio of at least 2.0 by reacting methane with an oxygen source. A second syngas is formed with a H₂/CO ratio of no more than 1.5 by reacting LPG with CO₂. The first syngas and the second syngas are blended to form a blended syngas feed with the selected H₂/CO ratio, and this blended syngas feed may be used in the syngas conversion reactor.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

4. Document ID: US 20030050348 A1

L7: Entry 4 of 9

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030050348

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030050348 A1

TITLE: Hydrocarbon conversion process using a plurality of synthesis gas sources

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kennedy, Paul Edwin	Tulsa	OK	US	

APPL-NO: 10/ 284810 [PALM]

DATE FILED: October 31, 2002

RELATED-US-APPL-DATA:

Application 10/284810 is a division-of US application 09/817544, filed March 26,

2001, PENDING

INT-CL: [07] C07 C 27/06

US-CL-PUBLISHED: 518/702

US-CL-CURRENT: 518/702

REPRESENTATIVE-FIGURES: NONE

ABSTRACT:

A Fischer-Tropsch-based process and system for converting light hydrocarbons into heavier hydrocarbons uses a plurality of different synthesis gas generators. The process includes preparing a first synthesis gas having a H_{sub}.2:CO ratio greater than 2:1; removing a portion of the hydrogen from the first synthesis gas; preparing a second synthesis gas with a CO_{sub}.2 recycle wherein the second synthesis gas has a H_{sub}.2:CO ratio less than 2:1; adding the removed hydrogen to the second synthesis gas to increase the H_{sub}.2:CO ratio of the second synthesis gas; and using a Fischer-Tropsch reaction to convert the first synthesis gas and the second synthesis gas to heavier hydrocarbons.

RELATED PATENT APPLICATION

[0001] This application claims priority of U.S. Provisional Application No. 60/192,503, filed Mar. 28, 2000, entitled, "System and Method for Converting Light Hydrocarbons Into heavier Hydrocarbons with a Plurality of Synthesis Gas Sources."

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

5. Document ID: US 20010047040 A1

L7: Entry 5 of 9

File: PGPB

Nov 29, 2001

PGPUB-DOCUMENT-NUMBER: 20010047040

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010047040 A1

TITLE: System and method for converting light hydrocarbons into heavier hydrocarbons with a plurality of synthesis gas subsystems

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Agee, Kenneth L.	Bixby	OK	US	
Agee, Mark A.	Tulsa	OK	US	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE	CODE
Syntroleum Corporation, Delaware corporation				02	

APPL-NO: 09/ 902861 [PALM]

DATE FILED: July 11, 2001

RELATED-US-APPL-DATA:

Application 09/902861 is a division-of US application 09/538609, filed March 29, 2000, US Patent No. 6277894

Application is a non-provisional-of-provisional application 60/126996, filed March 30, 1999,

INT-CL: [07] C07 C 27/06, B01 J 8/04

US-CL-PUBLISHED: 518/704; 422/189

US-CL-CURRENT: 518/704; 422/189

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

A system and method for converting normally gaseous, light hydrocarbons into heavier, longer-chain hydrocarbons includes a turbine; a first synthesis gas subsystem; a second synthesis gas subsystem that receives thermal energy from the turbine and which preferably includes a steam reformer; and a synthesis subsystem for receiving synthesis gas from the first synthesis gas subsystem and the second synthesis gas subsystem and for producing the heavier hydrocarbons. A method includes using a plurality of synthesis gas subsystems to prepare synthesis gas for delivery to and conversion in a synthesis subsystem.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn De](#)

6. Document ID: US 20010027220 A1

L7: Entry 6 of 9

File: PGPB

Oct 4, 2001

PGPUB-DOCUMENT-NUMBER: 20010027220

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010027220 A1

TITLE: Hydrocarbon conversion process using a plurality of synthesis gas sources

PUBLICATION-DATE: October 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kennedy, Paul Edwin	Tulsa	OK	US	

APPL-NO: 09/ 817544 [PALM]

DATE FILED: March 26, 2001

RELATED-US-APPL-DATA:

Application 09/817544 is a reissue-of US application 60/192503, filed March 28, 2000, PENDING

INT-CL: [07] C07 C 27/06

US-CL-PUBLISHED: 518/702
US-CL-CURRENT: 518/702

REPRESENTATIVE-FIGURES: NONE

ABSTRACT:

A Fischer-Tropsch-based process and system for converting light hydrocarbons into heavier hydrocarbons uses a plurality of different synthesis gas generators. The process includes preparing a first synthesis gas having a H_{sub.2}:CO ratio greater than 2:1; removing a portion of the hydrogen from the first synthesis gas; preparing a second synthesis gas with a CO_{sub.2} recycle wherein the second synthesis gas has a H_{sub.2}:CO ratio less than 2:1; adding the removed hydrogen to the second synthesis gas to increase the H_{sub.2}:CO ratio of the second synthesis gas; and using a Fischer-Tropsch reaction to convert the first synthesis gas and the second synthesis gas to heavier hydrocarbons.

RELATED PATENT APPLICATION

[0001] This application claims priority of U.S. Provisional Application No. 60/192,503, filed Mar. 28, 2000, entitled, "System and Method for Converting Light Hydrocarbons Into heavier Hydrocarbons with a Plurality of Synthesis Gas Sources."

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWC](#) | [Drawn D](#)

7. Document ID: US 6774148 B2

L7: Entry 7 of 9

File: USPT

Aug 10, 2004

US-PAT-NO: 6774148

DOCUMENT-IDENTIFIER: US 6774148 B2

TITLE: Process for conversion of LPG and CH₄ to syngas and higher valued products

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Rear; Dennis J.	Petaluma	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Chevron U.S.A. Inc.	San Ramon	CA			02

APPL-NO: 10/ 179604 [PALM]

DATE FILED: June 25, 2002

INT-CL: [07] C07 C 27/00, C07 C 1/02

US-CL-ISSUED: 518/702; 518/703, 518/705, 518/706, 518/715, 252/373

US-CL-CURRENT: 518/702, 252/373, 518/703, 518/705, 518/706, 518/715

FIELD-OF-SEARCH: 518/702, 518/703, 518/705, 518/706, 518/715, 518/700, 252/373

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3919114</u>	November 1975	Reynolds	
<u>4279830</u>	July 1981	Haag et al.	
<u>4690777</u>	September 1987	Valenyi et al.	
<u>4703793</u>	November 1987	Townsend	
<u>4782096</u>	November 1988	Banquy	
<u>4785877</u>	November 1988	Shen-Tu	
<u>4863712</u>	September 1989	Twigg et al.	
<u>5149516</u>	September 1992	Han et al.	
<u>5324335</u>	June 1994	Benham et al.	
<u>5658452</u>	August 1997	Heyse et al.	
<u>5674376</u>	October 1997	Heyse et al.	
<u>5676821</u>	October 1997	Heyse et al.	
<u>5863418</u>	January 1999	Heyse et al.	
<u>6274113</u>	August 2001	Heyse et al.	
<u>6310108</u>	October 2001	Bonneau et al.	518/700
<u>6479557</u>	November 2002	Lange et al.	
<u>2003/0148894</u>	August 2003	Vinegar et al.	507/200

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
8302479	August 1985	BR	
3617280	November 1987	DE	
3941591	June 1991	DE	
WO 93/15999	August 1993	WO	
WO 99/55618	November 1999	WO	

OTHER PUBLICATIONS

A. Santos, "Oxidation of Methane to Synthesis Gas in a Fluidized Bed Reactor Using MgO-Based Catalysts," Journal of Catalysis, 1996, pp. 83-91, vol. 158, Issue 1, Academic Press Inc.

S. Teuner, "A New Process to Make Oxo-Feed," Hydrocarbon Processing, Jul. 1987, p. 52, vol. 66, Issue 7, Gulf Pub. Co, Houston, TX.

S. Teuner, "Make CO from CO₂," Hydrocarbon Processing, May 1985, pp. 106-107, vol. 64, Issue 5, Gulf Pub. Co, Houston, TX.

N.R. Udengaard, et al., "Sulfur Passivated Reforming Process Lowers Syngas H₂/CO Ratio", Oil & Gas Journal, Mar. 9, 1992, pp. 62-67, vol. 90, Issue 10, Petroleum Pub Co, Tulsa, OK.

United Kingdom Search Report Dated Oct. 30, 2003.

International Search Report Mailed Nov. 28, 2003.

ART-UNIT: 1621

PRIMARY-EXAMINER: Parsa, J.

ATTY-AGENT-FIRM: Burns, Doane, Swecker & Mathis, L.L.P.

ABSTRACT:

The present invention relates to a process for the production of a blended syngas feed with a variable H_{sub.2} /CO ratio for use in a syngas conversion reactor. In this process a H_{sub.2} /CO ratio of from approximately 1.0 to 3.0 for the blended syngas feed is selected. A first syngas is formed with a H_{sub.2} /CO ratio of at least 2.0 by reacting methane with an oxygen source. A second syngas is formed with a H_{sub.2} /CO ratio of no more than 1.5 by reacting LPG with CO_{sub.2}. The first syngas and the second syngas are blended to form a blended syngas feed with the selected H_{sub.2} /CO ratio, and this blended syngas feed may be used in the syngas conversion reactor.

41 Claims, 2 Drawing figures

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Schematics](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

8. Document ID: US 6512018 B2

L7: Entry 8 of 9

File: USPT

Jan 28, 2003

US-PAT-NO: 6512018

DOCUMENT-IDENTIFIER: US 6512018 B2

TITLE: Hydrocarbon conversion process using a plurality of synthesis gas sources

DATE-ISSUED: January 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kennedy; Paul Edwin	Tulsa	OK		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Syntroleum Corporation	Tulsa	OK			02

APPL-NO: 09/ 817544 [PALM]

DATE FILED: March 26, 2001

PARENT-CASE:

RELATED PATENT APPLICATION This application claims priority of U.S. Provisional Application No. 60/192,503, filed Mar. 28, 2000, entitled, "System and Method for Converting Light Hydrocarbons Into heavier Hydrocarbons with a Plurality of Synthesis Gas Sources."

INT-CL: [07] C07 C 27/00

US-CL-ISSUED: 518/715; 518/700, 518/702, 518/703, 518/704

US-CL-CURRENT: 518/715; 518/700, 518/702, 518/703, 518/704

FIELD-OF-SEARCH: 518/700, 518/702, 518/703, 518/704, 518/715

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4833170</u>	May 1989	Agee	
<u>5763716</u>	June 1998	Benham et al.	585/315
<u>6248794</u>	June 2001	Gieskes	518/700

ART-UNIT: 1621

PRIMARY-EXAMINER: Parsa; J.

ATTY-AGENT-FIRM: Dority & Manning

ABSTRACT:

A Fischer-Tropsch-based process and system for converting light hydrocarbons into heavier hydrocarbons uses a plurality of different synthesis gas generators. The process includes preparing a first synthesis gas having a H_{sub}2 :CO ratio greater than 2:1; removing a portion of the hydrogen from the first synthesis gas; preparing a second synthesis gas with a CO_{sub}2 recycle wherein the second synthesis gas has a H_{sub}2 :CO ratio less than 2:1; adding the removed hydrogen to the second synthesis gas to increase the H_{sub}2 :CO ratio of the second synthesis gas; and using a Fischer-Tropsch reaction to convert the first synthesis gas and the second synthesis gas to heavier hydrocarbons.

11 Claims, 4 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Senders	Attachments	Claims	KVNC	Drawn	Deleted
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9. Document ID: US 6277894 B1

L7: Entry 9 of 9

File: USPT

Aug 21, 2001

US-PAT-NO: 6277894

DOCUMENT-IDENTIFIER: US 6277894 B1

TITLE: System and method for converting light hydrocarbons into heavier hydrocarbons with a plurality of synthesis gas subsystems

DATE-ISSUED: August 21, 2001

INVENTOR - INFORMATION :

NAME	CITY	STATE	ZIP CODE	COUNTRY
Agree; Kenneth L.	Bixby	OK		
Agree; Mark A.	Tulsa	OK		

ASSIGNEE - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Syntroleum Corporation	Tulsa	OK			02

APPL-NO: 09/ 538609 [PALM]
DATE FILED: March 29, 2000

PARENT-CASE:

RELATED APPLICATION This application claims the benefit of U.S. provisional application Ser. No. 60/126,996, filed Mar. 30, 1999, entitled SYSTEM AND METHOD FOR CONVERTING LIGHT HYDROCARBONS INTO HEAVIER HYDROCARBONS WITH A PLURALITY OF SYNTHESIS GAS SUBSYSTEMS.

INT-CL: [07] C07 C 27/00

US-CL-ISSUED: 518/700; 518/702, 518/703, 518/704
US-CL-CURRENT: 518/700; 518/702, 518/703, 518/704

FIELD-OF-SEARCH: 518/700, 518/702, 518/703, 518/704

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4833170</u>	May 1989	Agee	518/703
<u>4973453</u>	November 1990	Agee	422/190
<u>5490377</u>	February 1996	Janes	60/39.12
<u>5666800</u>	September 1997	Sorenson et al.	60/39.02
<u>5694761</u>	December 1997	Griffin, Jr.	69/39.05
<u>5733941</u>	March 1998	Waycuilis	518/703
<u>5861441</u>	January 1999	Waycuilis	518/703
<u>5973631</u>	October 1999	McCullen et al.	341/144
<u>5980840</u>	November 1999	Kleefisch et al.	422/211

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0748763A1	December 1996	EP	
WO 97/30011	August 1997	WO	
WO 99/19277	April 1999	WO	

OTHER PUBLICATIONS

"PFBC clean-coal technology. A new generation of combined-cycle plants to meet the growing world need for clean and cost effective power." ABB Carbon Marketing Department, S-612 82 Finspong, Approximately Feb. 1998.
PCT International Search Report (PCT Rule 44.1), mailed Nov. 2, 2000 re International Application PCT/US00/08371 filed Mar. 29, 2000 (Applicant's reference 062754.0214).

ART-UNIT: 161

PRIMARY-EXAMINER: Padmanabhan, Sreeni

ASSISTANT-EXAMINER: Parsa, J.

ATTY-AGENT-FIRM: Baker Botts L.L.P.

ABSTRACT:

A system and method for converting normally gaseous, light hydrocarbons into heavier, longer-chain hydrocarbons includes a turbine; a first synthesis gas subsystem; a second synthesis gas subsystem that receives thermal energy from the turbine and which preferably includes a steam reformer; and a synthesis subsystem for receiving synthesis gas from the first synthesis gas subsystem and the second synthesis gas subsystem and for producing the heavier hydrocarbons.

A method includes using a plurality of synthesis gas subsystems to prepare synthesis gas for delivery to and conversion in a synthesis subsystem.

5 Claims, 6 Drawing figures

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Advanced Search](#) | [Claims](#) | [KWC](#) | [Drawn D](#)

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Term	Documents
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(L2 OR L3).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	9

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